CSCI 361: Reading Assignment # 7   **Your Name:** _____

Due: Tuesday, Oct 8, in class

Assigned reading for this lecture:
- Sipser Third Edition Chap 2.3 (Non-Context-Free Languages)

Questions:

1. Read the pumping lemma for CFL and compare it to the pumping lemma for regular languages. What are the similarities and differences?

2. Consider a **regular CFG** (in which the RHS of every rule has exactly one variable in the rightmost position). What do the parse trees for strings derived from such grammars look like? Show what the pumping lemma reduces to for such grammars by drawing an analog of Figure 2.35 ("Surgery on parse trees")